

Title (en)
METHODS FOR MARKING AND MARKED ARTICLES

Title (de)
VERFAHREN ZUR MARKIERUNG UND MARKIERTE ARTIKEL

Title (fr)
PROCÉDÉS DE MARQUAGE ET ARTICLES MARQUÉS

Publication
EP 3109055 B1 20230726 (EN)

Application
EP 16174328 A 20160614

Priority
US 201514750652 A 20150625

Abstract (en)
[origin: EP3109055A1] A method for marking an article (100) is disclosed which includes providing an article (100) including a substrate (102), the substrate (102) including a surface (104) and a surface material (106), and forming a design (110) on the surface (104) of the substrate (102) by applying a marking material (108) to the surface (104) wherein applying the marking material (108) includes an additive manufacturing technique. Another method for marking an article (100) further includes the surface (104) having a first surface (500) and second surface (502), the second surface (502) defining a depression (504) relative to the first surface (500), and forming a design (110) on the surface (104) of the substrate (102) by applying a marking material (108) to the second surface (502), the marking material (108) forming a marking surface (600) which is substantially flush with the first surface (500). The marked article (100) formed by the methods includes a microstructure derived from the additive manufacturing technique.

IPC 8 full level
B41M 3/14 (2006.01); **B41M 5/26** (2006.01)

CPC (source: CN EP US)
B22F 3/24 (2013.01 - US); **B22F 10/00** (2021.01 - CN); **B22F 10/25** (2021.01 - CN EP US); **B22F 10/28** (2021.01 - CN EP US);
B22F 10/39 (2021.01 - CN EP US); **B22F 10/62** (2021.01 - CN EP US); **B23K 26/342** (2015.10 - US); **B23K 26/70** (2015.10 - US);
B33Y 10/00 (2014.12 - CN); **B33Y 80/00** (2014.12 - CN); **B41M 3/14** (2013.01 - EP US); **B41M 5/262** (2013.01 - EP US);
C21D 1/00 (2013.01 - EP US); **C21D 9/0068** (2013.01 - EP US); **C23C 24/04** (2013.01 - CN US); **B22F 10/66** (2021.01 - CN EP US);
B22F 2003/247 (2013.01 - US); **B22F 2003/248** (2013.01 - US); **B33Y 10/00** (2014.12 - US); **B33Y 80/00** (2014.12 - US);
Y02P 10/25 (2015.11 - EP)

Citation (examination)
• WO 2014187331 A1 20141127 - SHENZHEN BYD AUTO R & D CO LTD [CN], et al
• WO 0078554 A1 20001228 - DMC2 DEGUSSA METALS CATALYSTS [US]

Cited by
WO2019145239A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3109055 A1 20161228; **EP 3109055 B1 20230726**; CN 106270508 A 20170104; CN 106270508 B 20210601; JP 2017019014 A 20170126;
JP 7019285 B2 20220215; US 2016376674 A1 20161229; US 9771629 B2 20170926

DOCDB simple family (application)
EP 16174328 A 20160614; CN 201610471838 A 20160624; JP 2016119479 A 20160616; US 201514750652 A 20150625